Channel
100

DVDS 102

DVDS
102

GoF-1   GoF-2   • • •   GoF-n

GoF-1
104

| BF | RF | RF | RF | BF | RF | • • • | BF |

Frame-1 Frame-2 Frame-3 Frame-4 Frame-5 Frame-6   Frame-n

FIG. 1

200

Digital Video Provider 210

Digital Video Network 220

Digital Video Receiver 300

Display Device 230

FIG. 2

300

Tuner 310

Processing Unit 312

Base Frame Selector 314

FIG. 3

400

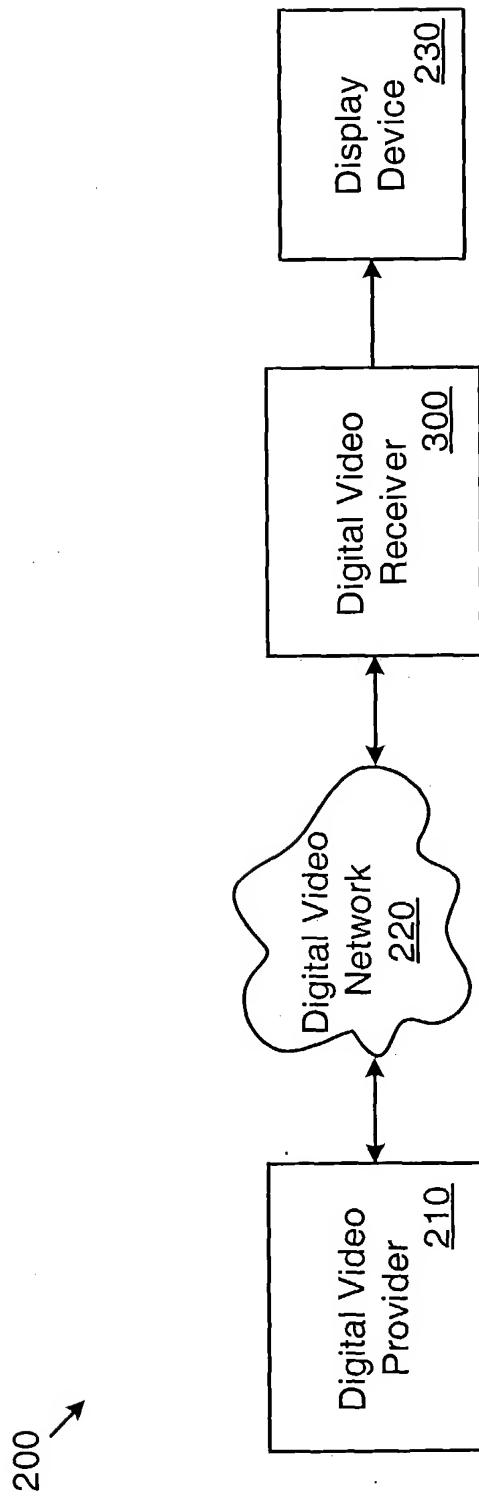FIG. 4

Blakely, Sokoloff, Taylor & Zafman LLP   (503) 684-6200
Title: METHOD FOR DISPLAYING BASE FRAMES DURING VIDEO DATA
DECROMPRESSION
1st Named Inventor: Michael Castillo
Express Mail No.: EV325526541US
Sheet: 5 of 8   Docket No.: 42P15475

500

START

502

Select a base frame of a digital video data stream

504

Decompress the selected base frame prior to decompressing the remaining frames

506

Provide decompressed base frame to display device

508

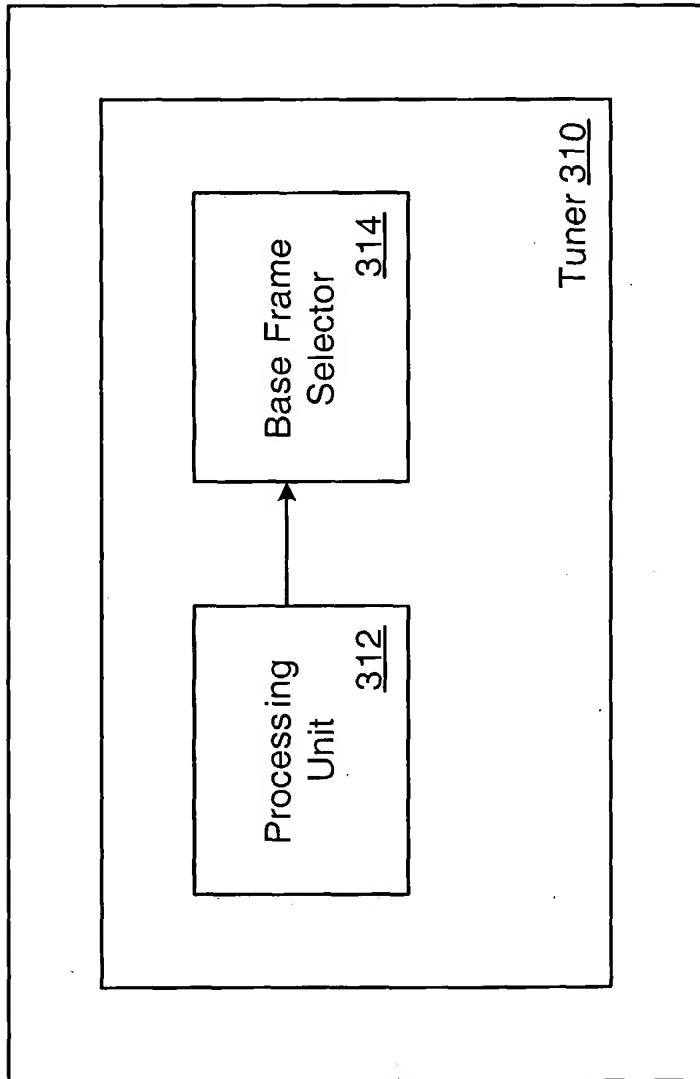Display device presents decompressed base frame prior to decompression of remaining frames

END

Blakely, Sokoloff, Taylor & Zafman LLP   (503) 684-6200
Title: METHOD FOR DISPLAYING BASE FRAMES DURING VIDEO DATA
DECROMPRESSION
1st Named Inventor: Michael Castillo
Express Mail No.: EV325526541US   Docket No.: 42P15475
Sheet: 6 of 8

600 →

```
┌──────────────────────────┐
│          START           │
└──────────────────────────┘
              │
              ▼
┌──────────────────────────┐
│ Decompress a digital      │  602
│ video data stream         │
│ on a first channel        │
└──────────────────────────┘
              │
              ▼
┌──────────────────────────┐
│ Select a base frame of    │  604
│ one or more               │
│ buffered channels         │
└──────────────────────────┘
              │
              ▼
┌──────────────────────────┐
│ Decompress the selected   │  606
│ base frame                │
└──────────────────────────┘
              │
              ▼
┌──────────────────────────┐
│ Buffer the decompressed   │  608
│ base frame                │
└──────────────────────────┘
              │
              ▼
┌──────────────────────────┐
│ Indication received to    │  610
│ switch from first         │
│ channel to buffered       │
│ channel                   │
└──────────────────────────┘
              │
              ▼
┌──────────────────────────┐
│ Provide decompressed base │  612
│ frame to display device   │
└──────────────────────────┘
              │
              ▼
┌──────────────────────────┐
│ Display device presents   │  614
│ decompressed base frame   │
│ prior to decompession of  │
│ remaining frames          │
└──────────────────────────┘
              │
              ▼
┌──────────────────────────┐
│           END            │
└──────────────────────────┘
```

Blakely, Sokoloff, Taylor & Zafman LLP   (503) 684-6200
Title: METHOD FOR DISPLAYING BASE FRAMES DURING VIDEO DATA DECROMPRESSION
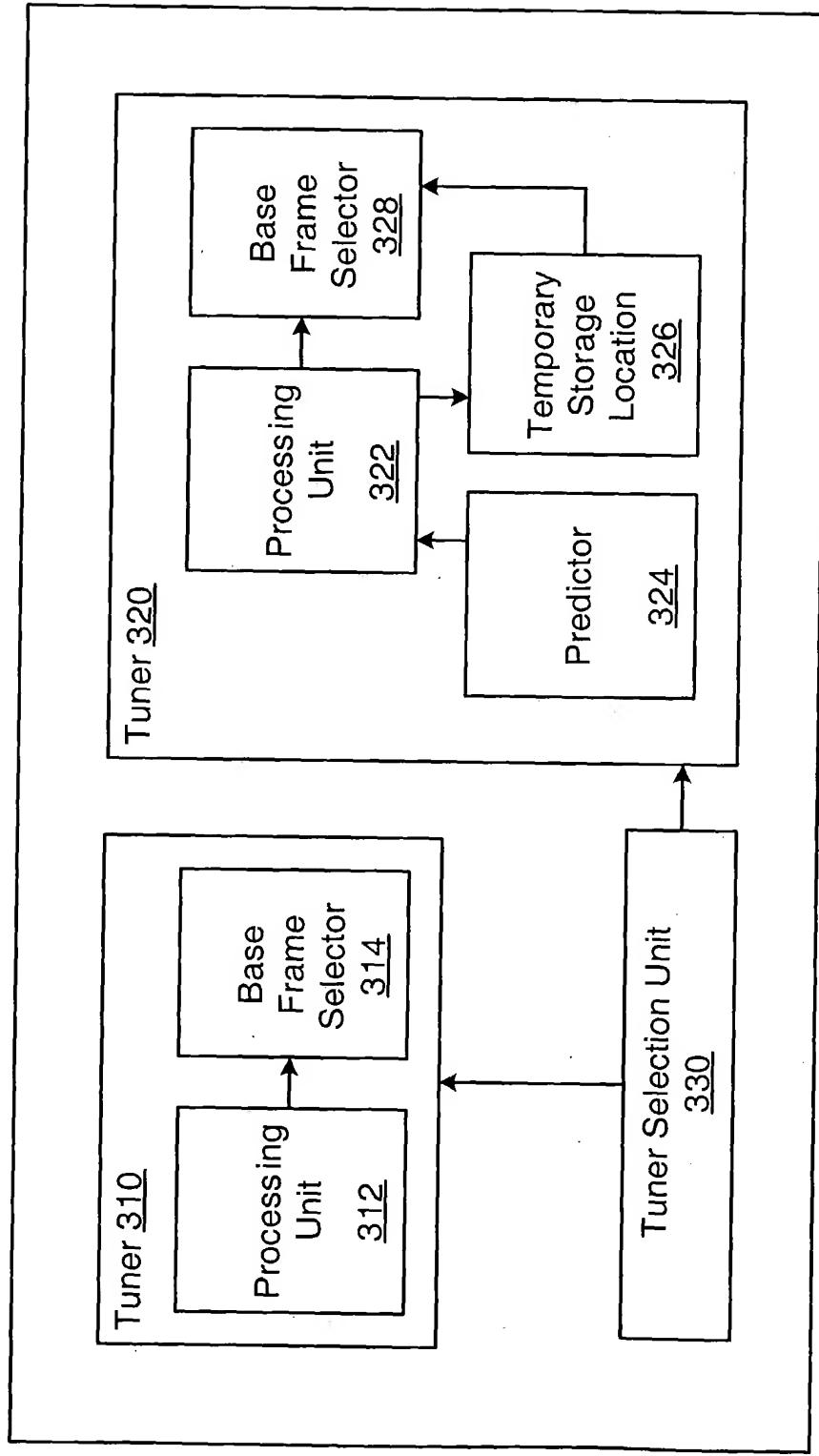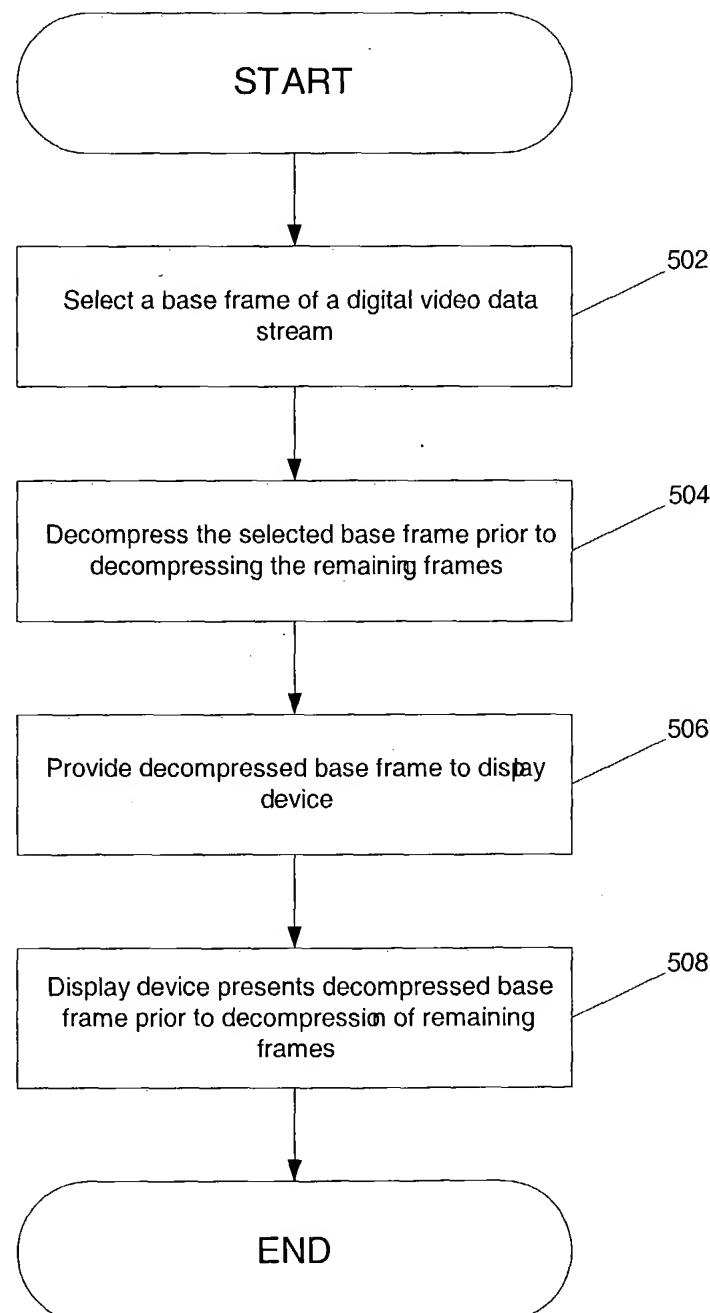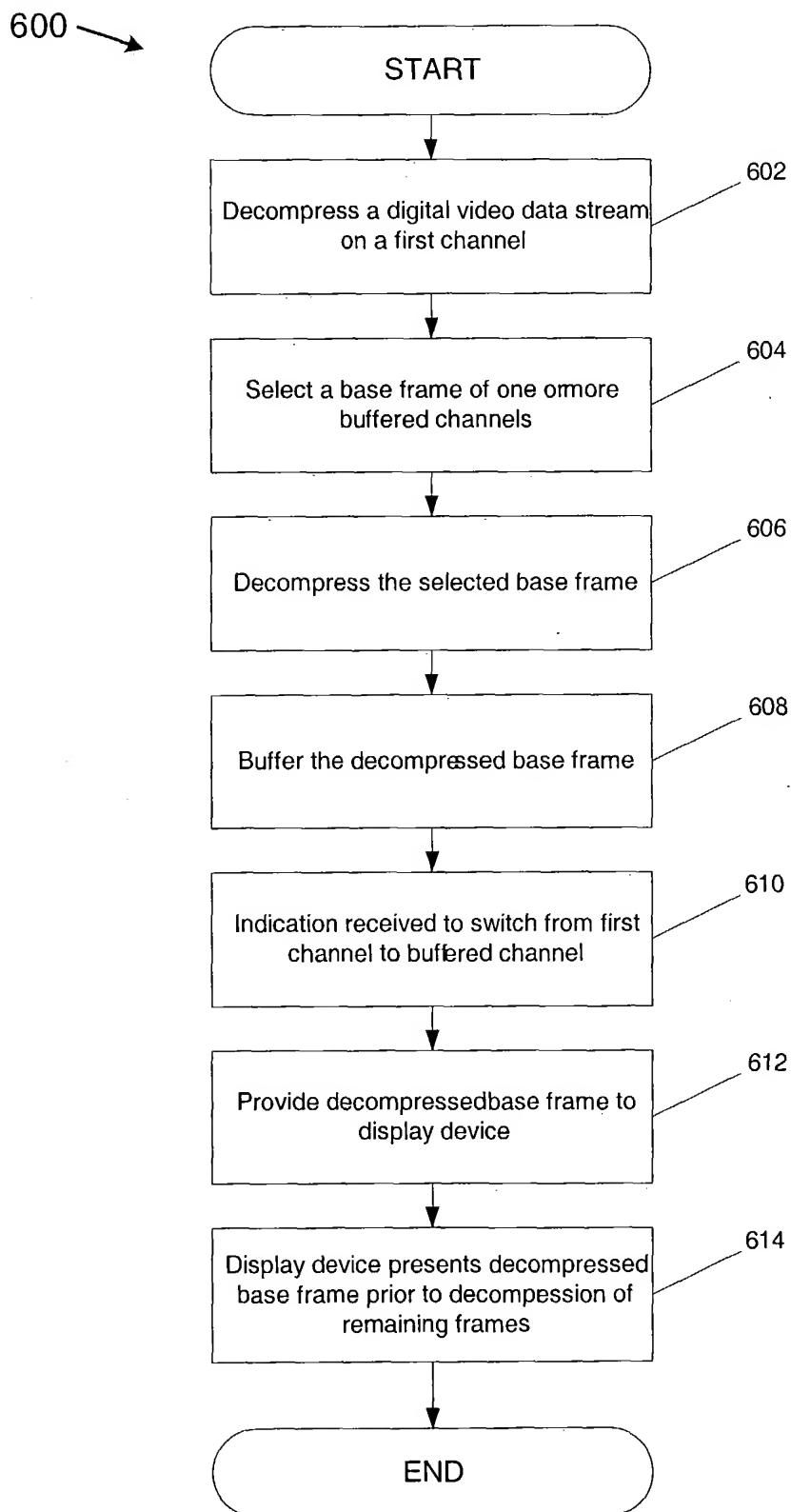1st Named Inventor: Michael Castillo
Express Mail No.: EV325526541US   Docket No.: 42P15475
Sheet: 7 of 8

700

START

First tuner decompresses a digital video data stream on a first channel — 702

Second tuner selects a base frame of one or more buffred channels — 704

Second tuner decompresses the selected base frame — 706

Second tuner buffers the decompressed base frame — 708

Selection unit receives indication to switch from first channel to a second channel — 710

712

Is indication to switch to a buffered channel ?

720 — Tuner selection unit chooses first tuner

714 — Tuner selection unit chooses second tuner

716 — Second tuner provides decompressed base frame to display device

722 — Go to 502

END

718 — Display device presents decompressed base frame prior to decompression of remaining frames
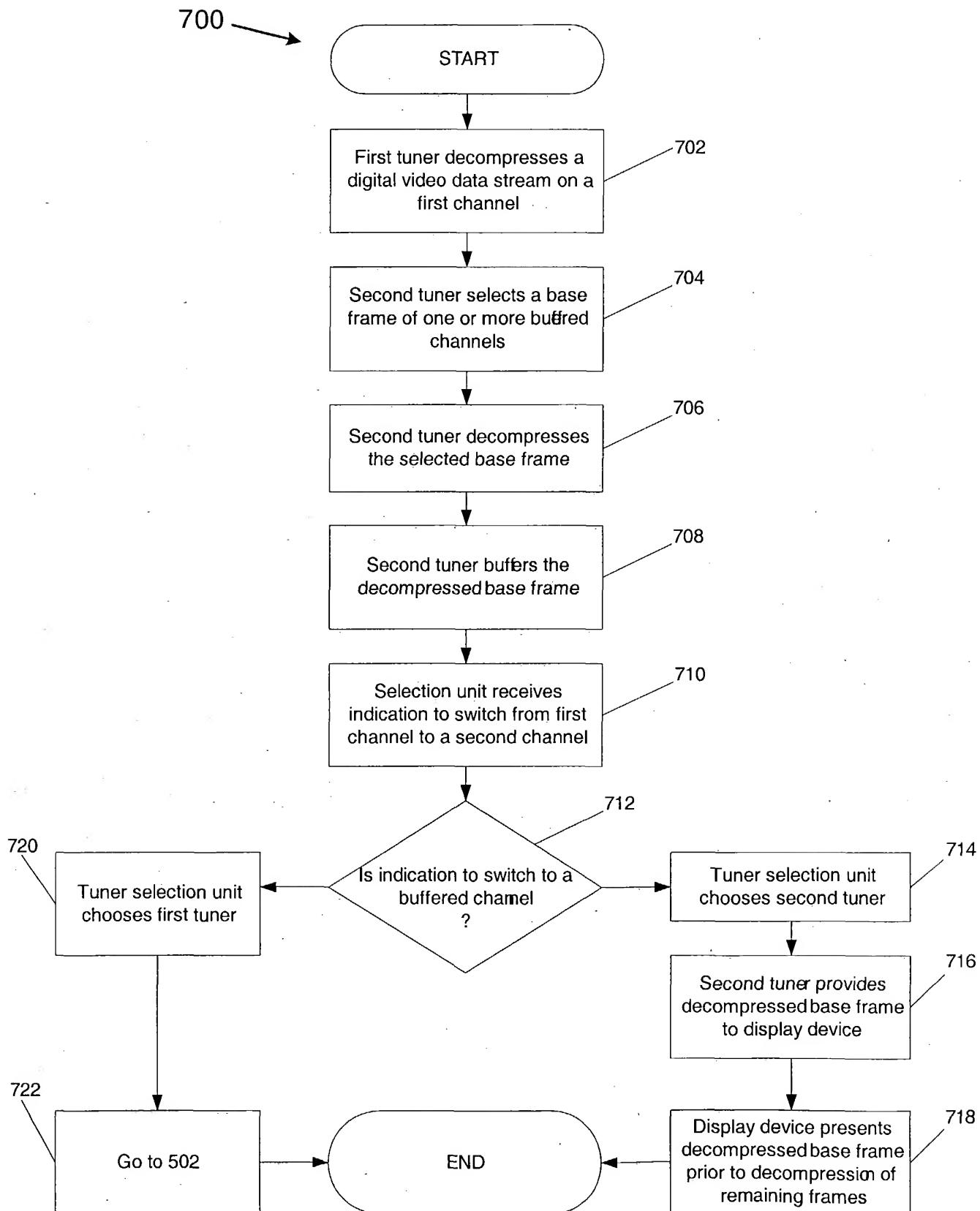
Blakely, Sokoloff, Taylor & Zafman LLP
(503) 684-5200
Title: METHOD FOR DISPLAYING BASE FRAMES DURING VIDEO DATA
DECROMPRESSION
1st Named Inventor: Michael Castillo   Docket No.: 42P15475
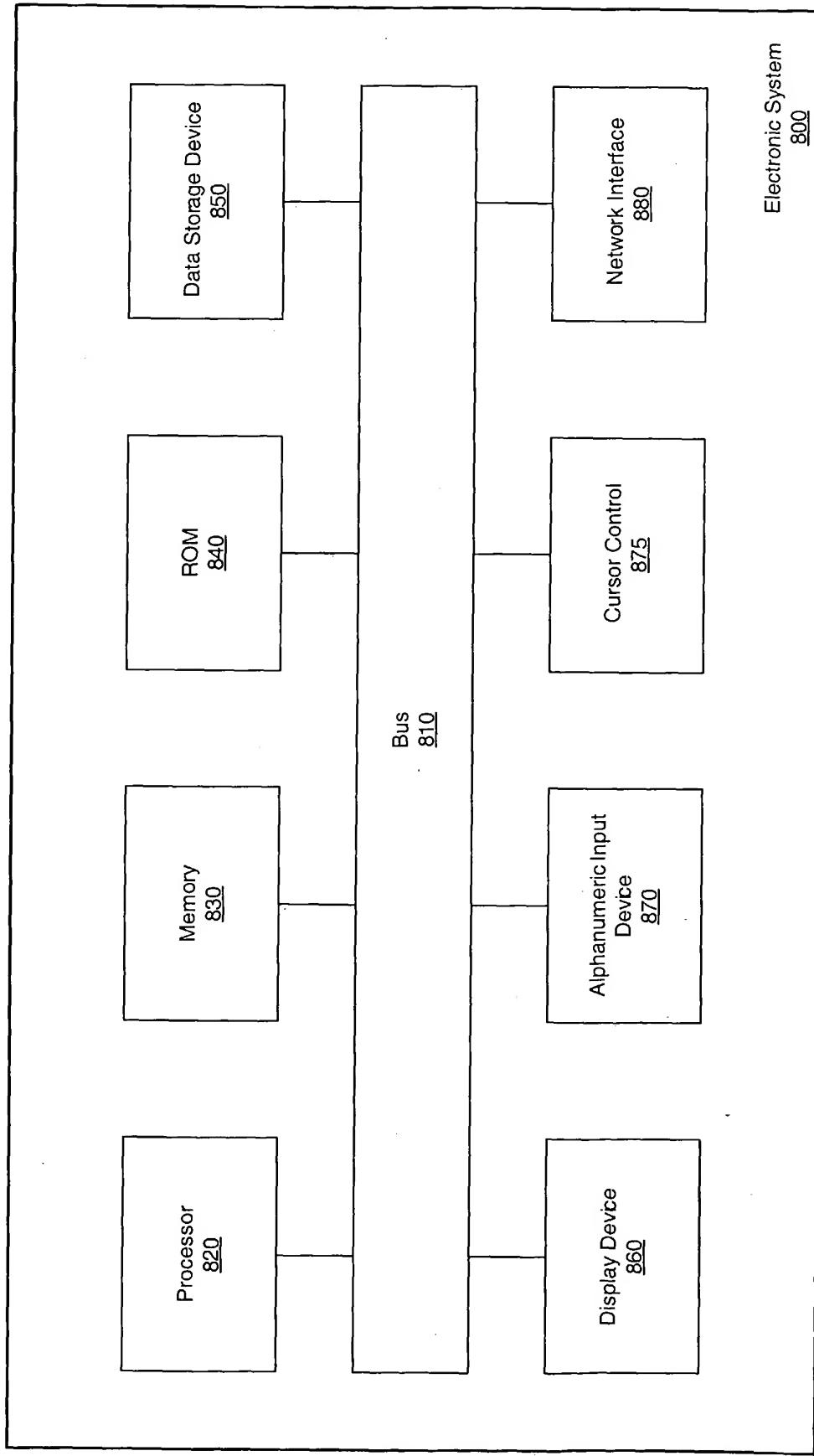Express Mail No.: EV325526541US
Sheet: 8 of 8

```
┌─────────────────────────────────────────────────────────────────────┐
│                                                                       │
│   ┌───────────┐   ┌───────────┐   ┌───────────┐   ┌───────────────┐  │
│   │ Processor │   │  Memory   │   │    ROM    │   │ Data Storage  │  │
│   │    820    │   │    830    │   │    840    │   │   Device      │  │
│   │           │   │           │   │           │   │    850        │  │
│   └─────┬─────┘   └─────┬─────┘   └─────┬─────┘   └───────┬───────┘  │
│         │               │               │                 │          │
│   ┌─────┴───────────────┴───────────────┴─────────────────┴──────┐  │
│   │                         Bus  810                              │  │
│   └─────┬───────────────┬───────────────┬─────────────────┬──────┘  │
│         │               │               │                 │          │
│   ┌─────┴─────┐   ┌──────┴──────┐  ┌─────┴─────┐   ┌───────┴───────┐  │
│   │  Display  │   │Alphanumeric │  │  Cursor   │   │   Network     │  │
│   │  Device   │   │Input Device │  │  Control  │   │  Interface    │  │
│   │    860    │   │    870      │  │    875    │   │    880        │  │
│   └───────────┘   └─────────────┘  └───────────┘   └───────────────┘  │
│                                                                       │
│                                        Electronic System             │
│                                              800                      │
└─────────────────────────────────────────────────────────────────────┘
```

Fig. 8